Distributed by:

JAMECO® ELECTRONICS

www.Jameco.com ✦ 1-800-831-4242

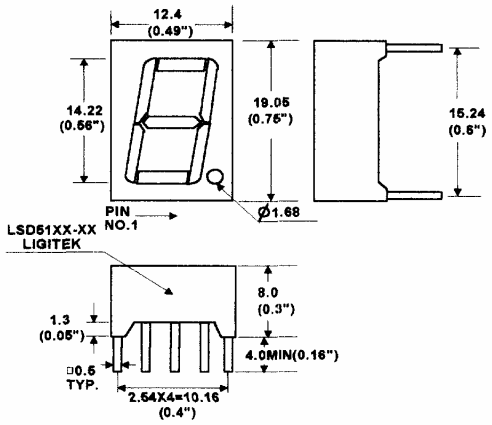
The content and copyrights of the attached material are the property of its owner.

Jameco Part Number 104213

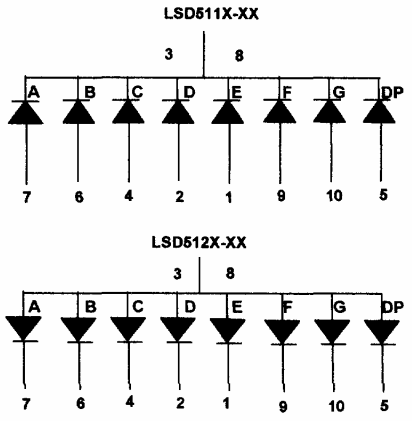
LIGITEK

SINGLE DIGIT LED DISPLAY (0.56Inch) **LSD511X/2X** *series* *Page 1/2*

PACKAGE DIMENSION



INTERNAL CIRCUIT DIAGRAM



NOTE: All Dimension Are In Millimeters And (Inch)
Tolerance Is ±0.25(0.01") Unless Otherwise Noted

- **Connection To Electrical Schematic**

Electrical Connection

PIN NO.	LSD511X-XX	PIN NO.	LSD512X-XX
1	Anode E	1	Cathode E
2	Anode D	2	Cathode D
3	Common Cathode	3	Common Anode
4	Anode C	4	Cathode C
5	Anode Dp	5	Cathode Dp
6	Anode B	6	Cathode B
7	Anode A	7	Cathode A
8	Common Cathode	8	Common Anode
9	Anode F	9	Cathode F
10	Andoe G	10	Cathode G

文件編號：**QW0905-S511/2X-XX** 版本：A 生效日期：**May . 21 . 1996**

• Part Selection And Application Information (Ratings At 25°C Ambient)

PART NO	CHIP		common cathode or anode	λP (nm)	Δλ (nm)	Electrical					IV-M
						Vf(v)			Iv(mcd)		
	Material	Emitted				*Min*	*Typ.*	*Max*	*Min*	*Typ.*	
LSD5115-XX	GaAlAs	Red	Common Cathode	660	20	1.5	1.7	2.4	6.5	11	2:1
LSD5111-XX	GaP	Red		697	90	1.7	2.1	2.8	0.6	1.0	2:1
LSD5112V-XX	GaP	Green		565	30	1.7	2.1	2.8	6.0	10	2:1
LSD5113-XX	GaAsP/GaP	Yellow		585	35	1.7	2.0	2.8	2.0	3.5	2:1
LSD5114-XX	GaAsP/GaP	Orange		635	45	1.7	2.0	2.8	1.4	2.4	2:1
LSD5125-XX	GaAlAs	Red	Common Anode	660	20	1.5	1.7	2.4	6.5	11	2:1
LSD5121-XX	GaP	Red		697	90	1.7	2.1	2.8	0.6	1.0	2:1
LSD5122V-XX	GaP	Green		565	30	1.7	2.1	2.8	6.0	10	2:1
LSD5123-XX	GaAsP/GaP	Yellow		585	35	1.7	2.0	2.8	2.0	3.5	2:1
LSD5124-XX	GaAsP/GaP	Orange		635	45	1.7	2.0	2.8	1.4	2.4	2:1

• Absolute Maximum Rating (Ta=25°C)

Parameter	Red			Green		Yellow		Orange		Unit	Remark
Forward Current Per Chip	*SR*		*H*	*VG*		*Y*		*E*			
	40		15	30		20		30		mA	
Peak Current Per Chip (Duty 1/10, 0.1MS Pulse Width)	200		60	120		80		120		mA	
Power Dissipation Per Chip	110		45	100		85		100		mW	
Derating Linear From 25°C Per Chip	0.45		0.25	0.45		0.45		0.45		mA/ °C	
Reverse Current Per Any Chip	10			10		10		10		μA	
Operating Temperature	-40°C TO +85°C										
Storage Temperature	-40°C TO +100°C										
Solder Temperature 1/16 Inch Below Seating Plane For 3 Seconds At 260°C											

• Test Condition For Each Parameter

Parameter	Symbol	Unit	Test Condition
Forward Voltage Per Chip	Vf	volt	If=20mA
Luminous Intensity Per Chip	Iv	mcd	If=10mA
Peak Emission Wavelength	λP	nm	If=20mA
Spectral Line Half-Width	Δλ	nm	If=20mA
Reverse Current Any Chip	Ir	μA	Vr=5V
Luminous Intensity Matching Ratio	IV-M		